12-21-04; 5:40PM; ;19496600809 # 3/ 24

Application No.: 10/635,413

Docket No.: JCLA11963

AMENDMENTS

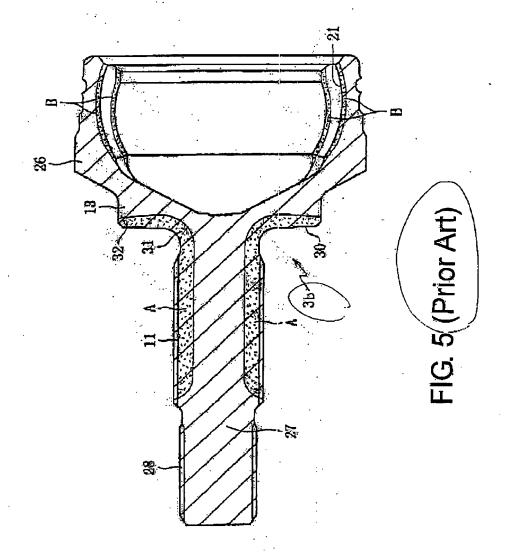
Please amend the application as indicated hereafter.

In the Drawings

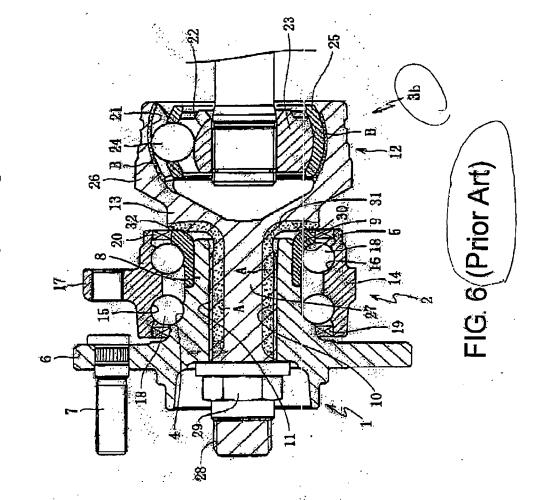
Please amend drawings of Figs. 5 and 6 according to the annotated sheets showing changes. The attached sheets include replacement sheets and annotated sheets showing changes.

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Annotated Marked-up drawing



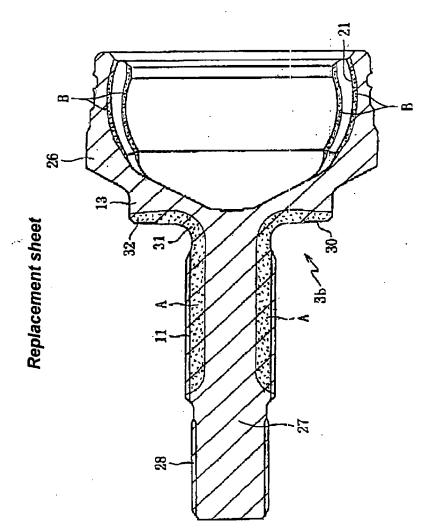


FIG. 5 (Prior Art)

Replacement sheet

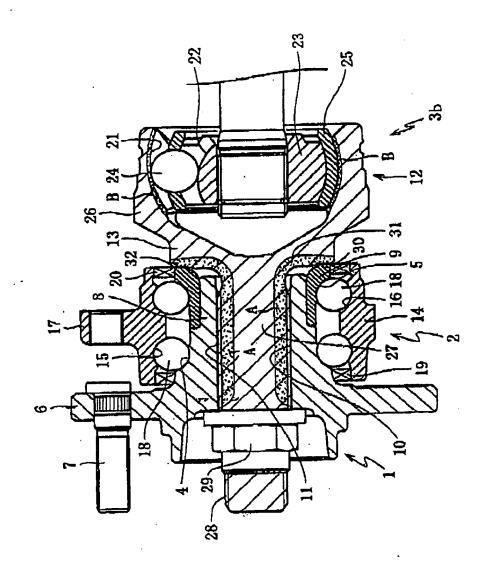
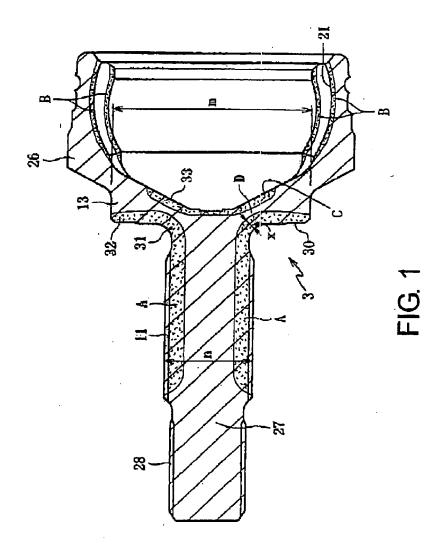
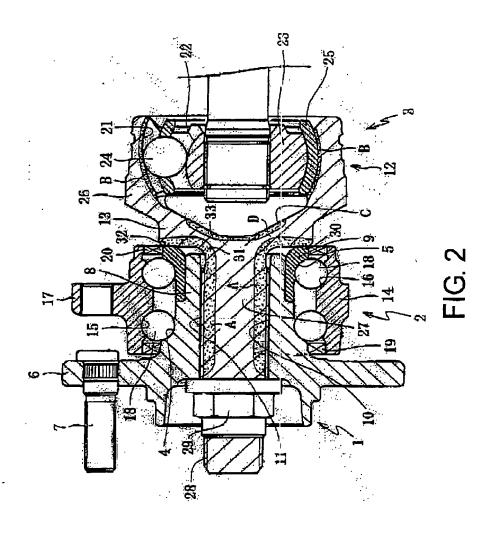


FIG. 6 (Prior Art)





		٠.					
fective depth (mm)	Wouth bottom negtion		703/0.8	703/1 3	703/2.6	703/3, 9	701/4.5
ness (Hv) /Hardness eff	Unbardened portion	220	823	230	230	082	230
Surface hard:	Base portion	672/1.8	870/1.8	670/1.8	670/1.9	668/1.8	595/1.0
Statio torsion	strength	Reference	0	0	0	0	×
		Conventional product	Examla a	Example b	Example c	Example d	Example e

Gross: Grack accurred Lower than conventional one.

Circle: Better than conventional one.

Double circle: Far better than conventional ans.

FIG. 3

-	Ratio of	of step 1 m/n=1.5	Ratio of	step: m/n=1.8	Ratio of	tion 3 m/n=9. 0
earting	Hardness/def	Rate of crack	Hardness/depth	diess/depth Rate of crack	Hardness/depth	dness/depth Rate of crack
tine	m/ca	occurrence at	看∕≟	Occurrence ac	III/A]	occurrence at
		shoulder portion(%)	1	shoulder portion(%)		shoulder portion(%)
Sport.	665/2.5	*5	665/2, 4	35	665/2. 4	20
	671/2.9	% 0	671/2.9	35	671/2 8	2
	662/3.0	860	662/3.2	客	662/3.0	35
	660/3.5	9%	9.6/099	35	660/3.1	619
Long	660/4, 2	86	6.8/099	12%	660/3.1	888

FIG 4

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